

**Abstract**

A color mapping method is used in transforming colors between color imaging systems. The method includes using forward transformation profiles that characterize the 5 color imaging systems to generate respective sets of device-independent color values for the color imaging systems. Color conversions are calculated by recursively reducing differences between the respective sets of device-independent color values. Based on these color conversions, 10 a color map is constructed that describes a relationship between the color imaging systems.

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